

AMENDMENTS TO THE CLAIMS

Please replace all previous versions of the claims with the following listing:

1. (Original) A linear actuator comprising:
 - a shaft having a male thread portion;
 - a worm gear speed reducer for reducing rotation of a motor in speed and transmitting the rotation to the shaft;
 - a female thread member which is threadedly engaged with the male thread portion and which moves forward and backward by normal or reverse rotation of the shaft;
 - a moving cylinder which is fixed to the female thread member and which moves forward and backward with respect to a housing; and
 - a position detection apparatus which detects a position of the moving cylinder,wherein the position detection apparatus can adjust detection of a position of the moving cylinder in the housing.
2. (Original) The linear actuator according to claim 1, wherein the position detection apparatus comprises a potentiometer which converts the rotation amount of the shaft into a voltage value, and the position detection apparatus is movably provided on the housing.
3. (Currently Amended) The linear actuator according to claim 2, wherein a driven gear is mounted on a sensor shaft of the potentiometer, the driven gear is meshed with a pinion which rotates in unison with the shaft, and the potentiometer can move in an axial direction of the moving cylinder ~~or toward an axis of the moving cylinder.~~
4. (Currently Amended) The linear actuator according to claim 3, wherein the potentiometer can slide in the axial direction of the moving cylinder ~~or toward the axis of the moving cylinder.~~

5. (New) A linear actuator comprising:

- a shaft having a male thread portion;
 - a worm gear speed reducer for reducing rotation of a motor in speed and transmitting the rotation to the shaft;
 - a female thread member which is threadedly engaged with the male thread portion and which moves forward and backward by normal or reverse rotation of the shaft;
 - a moving cylinder which is fixed to the female thread member and which moves forward and backward with respect to a housing; and
 - a position detection apparatus which detects a position of the moving cylinder,
- wherein the mounting of the position detection apparatus allows the position of the moving cylinder detected by the position detection apparatus to be adjusted in the housing.